

ASI

**introduces a new family
of small and medium scale
computers for scientific,
engineering, and on-line
systems applications**



A woman in a dark dress stands next to the ADVANCE 6020 office system. The system consists of a large whiteboard on the left, a central control panel with a keyboard, and a tall cabinet on the right with two circular dials. A small table with a typewriter and a swivel chair are positioned in front of the system. The background is a solid orange wall.

ADVANCE 6020



A man and a woman are working with the ADVANCE 6040 office system. The man is on the left, operating a large desk unit. The woman is in the center, standing next to a tall cabinet with two circular dials. Another woman is on the right, operating a desk unit. The system includes a large whiteboard, a central control panel, and a tall cabinet with two circular dials. A small table with a typewriter and a swivel chair are positioned in front of the system. The background is a solid orange wall.

ADVANCE 6040

The **ADVANCE** Series Computers — from ASI's continuing program of new product development

The new **ADVANCE** Series computer family by ASI combines characteristics most wanted and needed by scientific, engineering, and on-line systems users. At each computer system level **ADVANCE** Series computers provide standard options to meet exact hardware needs. **ADVANCE** Series computer systems are modular . . . can be expanded freely without equipment obsolescence or costly reprogramming. **ADVANCE** Series new tested programming aids are delivered with the computer. Best of all, whatever the computation scale, **ADVANCE** Series computers offer more computing power per dollar. Isn't the **ADVANCE** Series the answer to your computer needs?

The new 6020 and 6040 computer systems introduced here are the first two members of the **ADVANCE** Series.

ADVANCE 6020 The low-cost system for small scale users.

Arithmetic and Control	Memory	Word Size: 24 bits plus parity.	Input/Output	Buffered input/output.
		1.90 microsecond total cycle time.		Multilevel interrupts.
		4,096 to 32,768 word directly addressable memory.	Software	Special purpose channels.
		Three index registers, in memory.		One-pass FORTRAN II compiler.
		Multiply: 30.4 microsecond Divide: 47.5 microsecond		One-pass symbolic assembler.
		Over 120 instructions.	Price	Executive system.
		Double precision hardware.		Purchase prices begin at \$79,500.
		16 definable Programmed Instructions.		
				Plus Standard ADVANCE Series Features.

Plus Standard **ADVANCE** Series Features.

ADVANCE 6040 The high-performance system for medium scale users.

Arithmetic and Control	Memory	Word Size: 24 bits plus parity.	Input/Output	Buffered input/output.
		1.90 microseconds total cycle time.		Multilevel interrupts.
		4,096 to 32,768 word directly addressable memory.	Software	Special purpose channels.
				Fully compatible throughout ADVANCE Series
		High speed arithmetic	Price	Purchase prices begin at \$104,500.
		Multiply: 9.5 microsecond		
		Divide: 11.5 microsecond		
		Three hardware index registers.		
	Over 120 instructions.		Plus Standard ADVANCE Series Features.	
	Programmed Instruction feature.			

Features common to all **ADVANCE** Series system include:

Special Options	Within each system of the ADVANCE Series special option packages for individual applications include . . . word, character, and field input/output channels . . . real time clocks . . . added memory capacity . . . special instructions.
Peripheral Equipment	A complete line of proven peripheral equipment includes . . . high and low density magnetic tape units . . . punched card readers/punches . . . paper tape system . . . in/out typewriter . . . line printers . . . incremental plotting systems . . . CRT display. Special interface "boxes" available to meet requirements such as pulse-height analysis, flight simulation, analog data on-line computation, etc.; details on request.
Systems Design/Service Support	Systems design and interfacing service provide complete systems to meet your exact needs. Continually expanding field and "home office" staff offer a full range of on-site support services . . . on-line systems integration . . . programmer training . . . program installation assistance . . . operator training . . . maintenance service throughout the country.

Please send following information:

☐
☐
☐

6020 **ADVANCE** General Description

6040 **ADVANCE** General Description

Programming Systems for **ADVANCE** Series

Use this card
for quick response

You will receive additional information on the 6020 or 6040 system by filling out the reader service card, the attached postal card, or contacting the local sales office listed on the back of this page.

NAME _____
 TITLE _____
 COMPANY _____
 ADDRESS _____
 CITY _____
 STATE _____
 TELEPHONE _____

Over 30% of ASI's customers have ordered additional ASI computer systems

The ADVANCE Series joins the 210 and 2100 computer systems already at work in applications such as aerospace flight simulation, seismic data reduction, on-line high energy physics experiments, optical data classification, and others. Advanced Scientific Instruments is an operating division of Electro-Mechanical Research, Inc., long the leader in the aerospace telemetry and data processing fields. ASI credits its growth and product acceptance to technically-creative research and a continuing program of new product development. Look to ASI for further new scientific computer developments.

ASI

8001 Bloomington Freeway, Minneapolis, Minnesota 55420 / Division Electro-Mechanical Research, Inc.

SALES OFFICES

BOSTON 272-5400, 1 Garfield Circle, Burlington • **COCOA BEACH, FLA.** 783-4903, Suite 23, Holiday Office Center, 1325 N. Atlantic Avenue • **DALLAS** DI 8-4170, 10215 Chesterton Drive • **DAYTON** BA 3-8846, 815 S. Main Street • **DENVER** SU 9-1834, 3600 S. Lincoln, Englewood • **EL PASO** 751-2344, 8888 Dyer St. • **HOUSTON** MI 4-1856, 7135 Office City Drive • **HUNTSVILLE, ALA.** 881-4822, 3322 S. Memorial Parkway • **LOS ANGELES** ST 2-7030, 15551 Cabrito Road, Van Nuys • **MINNEAPOLIS** 888-9581, 8001 Bloomington Freeway • **PALO ALTO, CALIF.** 326-1894, 750 Welch Road • **WASHINGTON, D. C.** 864-6340, 5012 College Avenue, College Park, Md.

BUSINESS REPLY MAIL

No Postage Stamp Necessary If Mailed in the United States

POSTAGE WILL BE PAID BY
ADVANCED SCIENTIFIC INSTRUMENTS
8001 Bloomington Freeway
Minneapolis, Minnesota 55420

FIRST CLASS
PERMIT NO. 10085
Minneapolis, Minn.
MINNEAPOLIS,
MINN.

Get More Detailed Information
On The ADVANCE Series From ASI
By Sending The Attached Card
Or Call Any Of The Above
Listed Sales Offices.